

Title (en)

IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, AND PROGRAM

Title (de)

BILDVERARBEITUNGSVERFAHREN, BILDVERARBEITUNGSVORRICHTUNG UND PROGRAMM

Title (fr)

PROCÉDÉ DE TRAITEMENT D'IMAGE, DISPOSITIF DE TRAITEMENT D'IMAGE, ET PROGRAMME

Publication

**EP 3764096 A4 20210428 (EN)**

Application

**EP 19764779 A 20190301**

Priority

- JP 2018040309 A 20180307
- JP 2019007984 W 20190301

Abstract (en)

[origin: EP3764096A1] The present invention addresses the problem of providing an image processing method, an image processing device, and a program capable of quantitatively evaluating the expression level of a specific protein more accurately in a tissue specimen in which fluorescent staining of the specific protein by means of a fluorescent substance, and dye staining for visualizing a cell or a region of interest in a cell, have been carried out in a multiple manner. The image processing method includes: an input step of inputting a fluorescence image and a cell morphology image obtained by capturing images of a tissue specimen in which specific biological material has been stained using a fluorescent substance capable of binding to the specific biological material, and in which a cell has been stained using a dye capable of being observed under visible light; a brightness value calculating step of extracting from the fluorescence image a specific region containing a bright spot, and calculating a brightness value of the specific region; and a brightness value adjusting step of adjusting the brightness value of the specific region on the basis of dye information in the cell morphology image.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] US 2016275673 A1 20160922 - ICHITANI SHUJI [JP], et al
- [A] US 9547165 B2 20170117 - YANG CHUNXIN [US], et al
- [A] US 2018038796 A1 20180208 - ICHITANI SHUJI [JP]
- See references of WO 2019172097A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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**EP 3764096 A1 20210113**; **EP 3764096 A4 20210428**; JP 7235036 B2 20230308; JP WO2019172097 A1 20210318; US 2021088444 A1 20210325; WO 2019172097 A1 20190912

DOCDB simple family (application)

**EP 19764779 A 20190301**; JP 2019007984 W 20190301; JP 2020504971 A 20190301; US 201916971036 A 20190301